

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A hand-held digital camera, ~~comprising:~~

that comprises

an image sensing means sensor for sensing an image and generating a signal carrying image data;

a reader for reading image processing instructions and generating a signal carrying processing data;

modification means a number of substantially identical processing units configured to work in parallel and connected to the image sensor and the reader for modifying said sensed receiving both the image data and the processing data and for processing the image data in accordance with modification the image processing instructions input into said camera from an inbuilt input means to generate dithered image data representing an image processed according to the processing instructions, the processing units being configured to define a VLIW vector processing assembly; and

an output means for printing out said modified image;

wherein said modification means includes a series of processing elements arranged around a central crossbar switch that can selectively be configured to pass data of the sensed image directly between the processing elements via the crossbar switch is configured to facilitate communication between the processing units; and

a printer connected to the processing units for receiving the dithered image data and for printing the processed image.

2. (Currently amended) A hand-held digital camera as claimed in claim 1, wherein each of said processing elements units includes an Arithmetic Logic Unit (ALU) ~~acting under the control of a microcode store, wherein said microcode store comprises a writeable control store that defines registers and arithmetic logic for use by the processing unit.~~

3. - 20. (Cancelled).

21. (New) A hand-held digital camera as claimed in claim 1, which includes a sensor interface for receiving signals from the image sensor and an input FIFO buffer interposed between the sensor interface and the processing units.

22. (New) A hand-held digital camera as claimed in claim 1, in which the reader is in the form of a card scanner that is configured to scan a card carrying a two-dimensional optical code that defines the image processing instructions.

23. (New) A hand-held digital camera as claimed in claim 22, which includes a card scanner interface for receiving signals from the card scanner and an input FIFO buffer interposed between the card scanner interface and the processing units.

24. (New) A hand-held digital camera as claimed in claim 1, which includes four processing units micro-coded to perform image processing functions.

25. (New) A hand-held digital camera as claimed in claim 1, in which the printer is in the form of a pagewidth inkjet printer and the camera includes a printhead interface and an output FIFO buffer interposed between the printhead interface and the processing units.